## **HPLC Application**

ID No.: **18073** 



## Interferon Alpha intact 5% impurity on Jupiter 3u C18 and Jupiter 5u C4

Column: Jupiter® 3 µm C18 300 Å, LC Column 150 x 2 mm, Ea

Dimensions: 150 x 2 mm ID
Order No: 00F-4263-B0
Elution Type: Gradient

Eluent A: 0.1% TFA and 2% Acetonitrile in Water Eluent B: 0.085% TFA, 90% Acetonitrile in Water

	0.00070, 5070 /			
Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	80	20
	2	10	20	80
	3	15	10	90

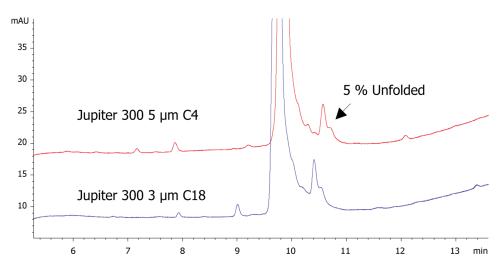


**Detection:** UV-Vis Abs.-Diode Array (PDA) @ 220 nm (25 °C)

Analyst Note: Application Focus: To demonstrate Jupiter 300 utility for separating folded from unfolded biogeneric proteins



Unlike other separation techniques, reversed phase can often visualize differences between intact and unfolded/ mis-folded protein states. Especially with E.Coli produced recombinant proteins, refolding analysis is often required as part of both manufacturing process analysis technology In App 1D# 18073 5% of unfolded interferon was added to the intact protein. As one can see from the overlaid chromatograms, both columns could apply 18073 5% of unfolded interferon was added to the intact protein. As one can see from the overlaid chromatograms, both columns could apply 18073 in a contract protein in fewer than 15 minutes. This application



## **ANALYTES:**

1 Intact & 5% impurity

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